

APPLICATION FOR PERMIT  
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office APR 2 1979

Returned to applicant for correction. ....

Corrected application filed. ....

Map filed APR 17 1979

The applicant Thermal Power Company and Southland Royalty Company

601 California Street, of San Francisco,  
Street and No. or P.O. Box No. City or Town

California 94108, hereby make application for permission to appropriate the public  
State and Zip Code No.

waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a copartnership or association, give names of members.) Thermal Power Company. Incorporated in California, December 6, 1956. Southland Royalty Company incorporated in Delaware, November 26, 1924.

1. The source of the proposed appropriation is deep geothermal reservoir 5000-8500 feet  
Name of stream, lake or other source.
2. The amount of water applied for is five (5) second-feet  
One second-foot equals 448.83 gals. per min.  
 (a) If stored in reservoir give number of acre-feet                      acre-feet
3. The water to be used for industrial application  
Irrigation, power, mining, manufacturing, domestic, or other use.
4. If use is for:
  - (a) Irrigation (state number of acres to be irrigated)
  - (b) Stockwater (state number and kinds of animals to be watered)
  - (c) Other use (describe fully under "No. 12. Remarks") industrial
  - (d) Power:
    - (1) Horsepower developed
    - (2) Point of return of water to stream
5. The water is to be diverted from its source at the following point: NW¼ of SE¼ Section 23, T23N, R35E, MDB&M 20,229.57 feet South 14° 26' West from South ¼ corner  
Describe as being within a 40-acre subdivision of public survey, and by course and distance to a section corner. If on unsurveyed land, it should be stated.  
of Section 36, T24N, R35E, MDB&M
6. Place of use NW¼ of SE¼ of Section 23, T23N, R35E, MDB&M.  
Describe by legal subdivision, if on unsurveyed land it should be so stated.
7. Use will begin about January 1 and end about December 31, of each year.  
Day and Month Day and Month
8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) The proposed works would be the completed geothermal well. Water would be diverted from the geothermal reservoir, through the cased wellbore to the wellhead for the initial beneficial use which is well flow testing to evaluate the geothermal reservoir. The wellbore will be cased to an estimated depth of 6300 feet (see attachment: Drilling and Completion Procedure)  
State manner in which water is to be diverted, whether by dam or other works, whether through pipes, ditches, flumes, or other conduits.

9. Estimated cost of works..... One Million one hundred thousand dollars (\$1,100,000.00)
10. Estimated time required to construct works..... Sixty to ninety days
11. Estimated time required to complete the application to beneficial use..... three to six months
12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use.

..... The industrial use of appropriated water, consequent to this application, would be the production of water or geothermal effluent from wellhead, then through surface pipeline, to electrical generating plant. Additional economic utilization of the geothermal energy may be effected subsequent to separate from electrical generation. /or

Applicant Thermal Power Company.....  
Southland Royalty Company

By By Thermal Power Company.....  
s/ W.L. D'Olier

Compared lp / ss .....

W.L. D'Olier, Vice President  
601 California Street  
San Francisco, California 94108

DENIAL OF STATE ENGINEER

deny

This is to certify that I have examined the foregoing application, and do hereby ~~grant~~ the same, subject to the following limitations and conditions:

This application is herewith denied on the grounds that the applicant has failed to submit the permit fee required under the provisions of NRS 533.435.

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed.....cubic feet per second.....

Actual construction work shall begin on or before.....

Proof of commencement of work shall be filed before.....

Work must be prosecuted with reasonable diligence and be completed on or before.....

Proof of completion of work shall be filed before.....

Application of water to beneficial use shall be made on or before.....

Proof of the application of water to beneficial use shall be filed on or before.....

Map in support of proof of beneficial use shall be filed on or before.....

Commencement of work filed.....  
Completion of work filed.....  
Proof of beneficial use filed.....  
Cultural map filed.....  
Certificate No..... Issued.....  
Recorded..... Bk..... Page.....  
County Recorder

IN TESTIMONY WHEREOF, I WILLIAM J. NEWMAN  
State Engineer of Nevada, have hereunto set my hand and the seal of  
my office, this 25th day of JUNE

A.D. 19 80

*William J. Newman*  
State Engineer